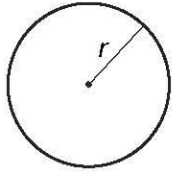


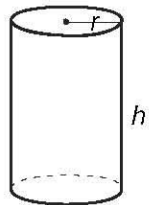
Mathematics 7 Reference Sheet

Circle



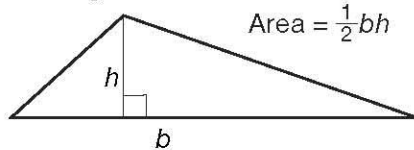
$$\begin{aligned}\text{Area} &= \pi r^2 \\ \text{Circumference} &= 2\pi r \\ \text{Circumference} &= \pi d\end{aligned}$$

Cylinder



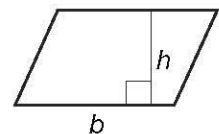
$$\begin{aligned}\text{Volume} &= \pi r^2 h \\ \text{Surface Area} &= 2\pi r^2 + 2\pi r h\end{aligned}$$

Triangle



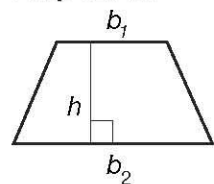
$$\text{Area} = \frac{1}{2}bh$$

Parallelogram



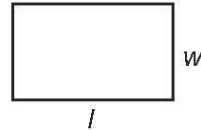
$$\text{Area} = bh$$

Trapezoid



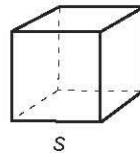
$$\text{Area} = \frac{1}{2}h(b_1 + b_2)$$

Rectangle



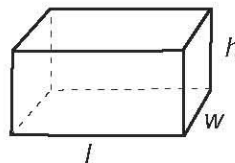
$$\begin{aligned}\text{Area} &= lw \\ \text{Perimeter} &= 2l + 2w\end{aligned}$$

Cube



$$\begin{aligned}\text{Volume} &= s^3 \\ \text{Surface Area} &= 6s^2\end{aligned}$$

Rectangular Prism



$$\begin{aligned}\text{Volume} &= lwh \\ \text{Surface Area} &= 2wl + 2lh + 2wh\end{aligned}$$

Definitions

MEAN:	The sum of a set of numbers divided by the number of elements in the set.
MEDIAN:	The middle number or average of the two middle numbers in a collection of data when the data are arranged in order.
MODE:	The number or numbers that occur most often in a collection of data.
RANGE:	The difference between the greatest and the least numbers in a collection of data.
REFLECTION OR FLIP:	A mirror image of a figure across a line of symmetry.
TRANSLATION OR SLIDE:	A change in position of a figure. All points in the figure move in the same direction for the same distance.
ROTATION OR TURN:	Turning a figure clockwise or counterclockwise about a point.

DISTANCE

$$\text{TRAVELED: distance} = \text{rate} \times \text{time}$$

Customary Conversions

8 ounces = 1 cup
 2 cups = 1 pint
 2 pints = 1 quart
 4 quarts = 1 gallon
 8 pints = 1 gallon
 3 teaspoons = 1 tablespoon
 16 tablespoons = 1 cup
 16 ounces = 1 pint
 16 ounces = 1 pound
 5280 feet = 1 mile

Metric Conversions

kilo-	hecto-	deka-	UNIT	deci-	centi-	milli-
k	h	da	meter (m) liter (l) gram (g)	d	c	m